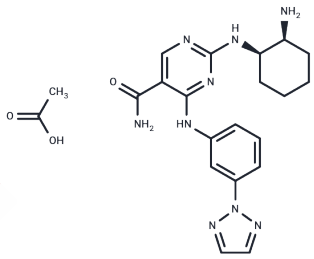
# Data Sheet (Cat.No.T24584)

TargetMol

## P505-15 Acetate

### Chemical Properties



CAS No. : 1370261-98-5

Formula: C21H27N9O3

Molecular Weight: 453.5

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

### Biological Description

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|---|---|
| Description | P505-15 Acetate is a selective inhibitor of spleen tyrosine kinase that acts by suppressing leukocyte immune function and inflammation and leading to a reduction in arthritis score and attenuated histological damage. |
| Targets(IC50) | Apoptosis,MLK,FAK,PYK2,Syk,PAK,Src,Tyrosinase |
| In vitro | In human whole blood, P505-15 potently inhibited B cell antigen receptor-mediated B cell signaling and activation (IC50 0.27 and 0.28 μM, respectively) and Fcε receptor 1-mediated basophil degranulation (IC50 0.15 μM) [1]. P505-15 successfully inhibited SYK-mediated B-cell receptor signaling and decreased cell viability in NHL and CLL [2]. PRT318 and P505-15 effectively antagonize CLL cell survival after BCR triggering and in nurse-like cell-co-cultures. Moreover, they inhibit BCR-dependent secretion of the chemokines CCL3 and CCL4 by CLL cells, and leukemia cell migration toward the tissue homing chemokines CXCL12, CXCL13, and beneath stromal cells. PRT318 and P505-15 furthermore inhibit Syk and extracellular signal-regulated kinase phosphorylation after BCR triggering [3]. |
| In vivo | Similar levels of ex vivo inhibition were measured after dosing in mice (Syk signaling IC50 0.32 μM). Oral administration of P505-15 produced dose-dependent anti-inflammatory activity in two rodent models of rheumatoid arthritis [1]. Oral dosing in mice prevented BCR-mediated splenomegaly and significantly inhibited NHL tumor growth in a xenograft model. In addition, combination treatment of primary CLL cells with P505-15 plus fludarabine produced synergistic enhancement of activity at nanomolar concentrations [2]. |

### Solubility Information

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|---|---|
| Solubility | DMSO: 10 mg/mL (22.05 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 2.2051 mL | 11.0254 mL | 22.0507 mL |
| 5 mM | 0.441 mL | 2.2051 mL | 4.4101 mL |
| 10 mM | 0.2205 mL | 1.1025 mL | 2.2051 mL |
| 50 mM | 0.0441 mL | 0.2205 mL | 0.441 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Coffey G, et al. Specific inhibition of spleen tyrosine kinase suppresses leukocyte immune function and inflammation in animal models of rheumatoid arthritis. J Pharmacol Exp Ther. 2012;340(2):350-359.
Spurgeon SE, et al. The selective SYK inhibitor P505-15 (PRT062607) inhibits B cell signaling and function in vitro and in vivo and augments the activity of fludarabine in chronic lymphocytic leukemia. J Pharmacol Exp Ther. 2013; 344(2):378-387.
Hoellenriegel J, et al. Selective, novel spleen tyrosine kinase (Syk) inhibitors suppress chronic lymphocytic leukemia B-cell activation and migration. Leukemia. 2012;26(7):1576-158